



ANALYTICAL REPORT

Job Number: 360-25577-1

Job Description: Olin Chemical Surface Water Quarterly

For:

Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Attention: Mr. Steven Morrow

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:

Joseph a. Cheur J.

Approved for release.
Joe Chimi
Report Production Representative
11/25/2009 11:37 AM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
11/25/2009

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY ELAP 10843, North Carolina 647, NELAP PA 68-04386. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.



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Laborator	y Name:	lame: TestAmerica Westfield Project #:			ect #:	#: 360-25577		-1	
Project Lo	cation:				MADEP F	RTN ¹ :			
		cations for the f	ollowing data set	:[list Laborator	y Sample ID Nur	nber(s)]			
360-2557	7-(1-8)								
Sample M	latrices:	Groundwater	Soil/Se	diment	Drinking Wate	r Othe	r:		
MCP SW	/-846	8260B()	8151A ()	8330 ()	6010B (x)	7470A/1A ()	Othe	r ()
Methods	Used	8270C()	8081A ()	VPH()	6020 ()	9014M ² /90)12 ()		
	ed in MADEP	8082 ()	8021B ()	EPH()	7000 S ³ ()	7196A ()			
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В		•	ed, including the r	•			V		
	standards or g		a that did not me	ет арргорпате	periormance				
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_		•	ıded in this repor		•	_	Yes	N/A	No ¹
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			quisition and Rep						
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D	significant mo	difications (see	Section 11.3 of	respective Me	thods)?			٧	
	A respons	se to question	s E and F below	/ is required f	or "Presumptive	Certainty	" statu:		
E			andards and reco				Yes		No ¹
_		nods achieved?					√		
F	Were results f	or all analyte-li	st compounds/ele	ements for the	specified		Yes	N/A	No ¹
	method(s) rep	•	·		•				\checkmark
	¹ All Negative r	responses mus	t be addressed in	n an attached l	Environmental La	boratory ca	se narr	ative.	
, the und					that, based upo				
nquiry of	those respons	sible for obtai	ning the informa	ation, the mat	erial contained	in this			
analytical	l report is, to th	ne best of my	knowledge and	belief, accura	te and complete).			
		11	~/-						
	Signature:	200	tarling		Position:	Laborato	y Dire	ctor	
	Printed Name:	Steven C. H	artmann		Date:	1	1/25/09	11:29	
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ne certification					TestAmerica Westfield				
ne certification		MADEP MA014	NELAP FL E87912 TOX						
Test _A	merica	MADEP MA014 NY DOH 10843	NELAP FL E87912 TOX NELAP NJ MA008 TOX		53 Southampton Rd,				
Test _A	Merica ENVIRONMENTAL TESTING			SEC IN ACCORDING					

Laborator	y Name:	lame: TestAmerica Westfield Project #:			360-25577-1				
Project Lo	cation:				MADEP	RTN ¹ :			
This form	provides certific	cations for the f	ollowing data se	et:[list Laborator	/ Sample ID Nur	mber(s)]			
360-2557	7-(1-8)								
Sample M	atrices:	Groundwater	Soil/S	ediment	Drinking Wate	r Oth	er:		
MCP SW	/-846	8260B()	8151A ()	8330 ()	6010B ()	7470A/1A	()	Other	. (x)
Methods	Used	8270C()	8081A ()	VPH()	6020 ()	9014M ² /9	` '		
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•	that apply)			Series List indi		-	•) WEUTO	u
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A				in a condition co		ro oortain	Yes		No ¹
A			•	mentation for th			√		INO
	Were all QA/C	QC procedures	required for the	specified analyt	ical method(s)		Yes		No ¹
В		-	_	requirement to			√		
			a that did not m	eet appropriate	performance				
	standards or g	guidelines?							
	Does the anal	ytical data inclu	ided in this repo	ort meet all the re	equirements		Yes	N/A	No ¹
С	•	•		Section 2.0 (a),	. , . , . , . ,	of		$\sqrt{}$	
			•	Assurance and (-				
	Control Guide	lines for the Ac	quisition and Re	eporting of Analy	ticai Data"?				
			-	or EPH Method		nout	Yes	N/A	No ¹
D	significant mo	difications (see	Section 11.3 of	f respective Met	nods)?			٧	
	A respons	se to question	s E and F belo	w is required fo	or "Presumptive	e Certaint	y" statı	ıs	
E				commendations			Yes		No ¹
	·	nods achieved?							
F	Were results f	for all analyte-lis	st compounds/e	lements for the	specified		Yes	N/A	No ¹
	method(s) rep	orted?						$\sqrt{}$	
	¹ All Negative i	responses mus	t be addressed	in an attached E	invironmental La	aboratory o	ase na	rative.	
, the und	ersigned, attes	st under the pa	ains and penalt	ties of perjury t	hat, based upo	n my pers	onal		
	-		_	nation, the mate					
analytical	report is, to th	ne best of my	knowledge and	l belief, accura	e and complete	е.			
	Signature:	St	Hastin		Position	: Laborate	ory Dire	ector	
	Printed Name:	Steven C. Ha	artmann		_ Date:	:	11/25/0	9 11:29	
he certification	form has been electronica	ally signed and approved			CAM VII	A, Rev 3.2		А	pril-04
T L A		MADEP MA014	NELAP FL E87912 TO		TestAmerica Westfield	d			
lest _A	merica	NY DOH 10843 RI DOH 57	NELAP NJ MA008 TOX NELAP NY 10843		53 Southampton Rd, Westfield, MA 01085				
THE LEADER IN	ENVIRONMENTAL TESTING	CT DPH 0494	NH DES 253901-A	STEO IN ACCORDANCE	Tel:(413)572-4000				
		VT DECWSD		% 1840	Fax:(413)572-3707				

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Surface Water Quarterly

Report Number: 360-25577-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/12/2009; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

MCP regulatory standard criteria were not specified for this report. Therefore, method reporting limits (RLs) were not assessed against any MCP standards as it may pertain to Question "E" on the Presumptive Certainty Certification Form (MADEP reference: WSC-CAM-AN-093008 - WSC-CAM Analytical Notes).

TOTAL METALS

Samples 360-25577-1 through 360-25577-8 were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 11/13/2009.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples 360-25577-1 through 360-25577-8 were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 11/13/2009.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples 360-25577-1 through 360-25577-8 were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 11/13/2009.

Samples 360-25577-1 through 360-25577-8(10X) required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples 360-25577-1 through 360-25577-8 were analyzed for ammonia in accordance with LACHAT 107-06-1B. The samples were prepared and analyzed on 11/24/2009.

Ammonia failed the recovery criteria low for the MS of sample 360-25577-6 in batch 360-52157. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. The associated LCS recovered within control limits. Refer to the QC report for details.

Samples 360-25577-2(10X), 360-25577-3(10X), 360-25577-4 through 360-25577-7(5X) and 360-25577-8(10X) required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE

Samples 360-25577-1 through 360-25577-8 were analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 11/13/2009.

No difficulties were encountered during the specific conductance analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Lab Sample ID C Analyte	lient Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-25577-1	OC-SW-ISCO3				
Aluminum Sodium Sulfate Nitrate as N Chloride Ammonia Specific Conductance		55 J 60000 31 0.97 160 1.5 650	100 2000 2.0 0.050 10 0.10 1.0	ug/L ug/L mg/L mg/L mg/L mg/L umhos/cm	6010B 6010B 300.0 300.0 300.0 L107-06-1B SM 2510B
Dissolved Sodium		79000	2000	ug/L	6010B
360-25577-2	OC-SW-ISCO2				
Aluminum Chromium Sodium Sulfate Nitrate as N Chloride Ammonia Specific Conductance		350 68 120000 510 1.4 170 83 1600	100 5.0 2000 20 0.050 10 1.0	ug/L ug/L ug/L mg/L mg/L mg/L mg/L umhos/cm	6010B 6010B 6010B 300.0 300.0 107-06-1B SM 2510B
Dissolved Aluminum Chromium Sodium		110 29 150000	100 5.0 2000	ug/L ug/L ug/L	6010B 6010B 6010B
360-25577-3	OC-SW-PZ16RR				
Aluminum Chromium Sodium Sulfate Nitrate as N Chloride Ammonia Specific Conductance		4800 1000 150000 380 3.9 250 57 1600	100 5.0 2000 20 0.050 10 1.0	ug/L ug/L ug/L mg/L mg/L mg/L umhos/cm	6010B 6010B 6010B 300.0 300.0 300.0 L107-06-1B SM 2510B
Dissolved Aluminum Chromium Sodium		93 J 60 170000	100 5.0 2000	ug/L ug/L ug/L	6010B 6010B 6010B

EXECUTIVE SUMMARY - Detections

Lab Sample ID Cl Analyte	lient Sample ID	Result / Qualifier	Reporting Limit	Units	Method
360-25577-4	OC-SW-PZ17RR				
Aluminum Chromium Sodium Sulfate Nitrate as N		3400 770 130000 250 4.0	100 5.0 2000 20 0.050	ug/L ug/L ug/L mg/L mg/L	6010B 6010B 6010B 300.0 300.0
Chloride Ammonia Specific Conductance		240 37 1300	10 0.50 1.0	mg/L mg/L umhos/cm	300.0 L107-06-1B SM 2510B
Dissolved Aluminum Chromium Sodium		70 J 68 150000	100 5.0 2000	ug/L ug/L ug/L	6010B 6010B 6010B
360-25577-5	OC-SW-SD17				
Aluminum Chromium Sodium Sulfate Nitrate as N Chloride Ammonia Specific Conductance		2700 620 130000 200 4.3 230 28 1300	100 5.0 2000 20 0.050 10 0.50 1.0	ug/L ug/L ug/L mg/L mg/L mg/L umhos/cm	6010B 6010B 6010B 300.0 300.0 300.0 L107-06-1B SM 2510B
Dissolved Aluminum Chromium Sodium		70 J 59 140000	100 5.0 2000	ug/L ug/L ug/L	6010B 6010B 6010B
360-25577-6	OC-SW-18R				
Aluminum Chromium Sodium Sulfate Chloride Ammonia Specific Conductance		290 36 74000 140 110 36 800	100 5.0 2000 20 10 0.50 1.0	ug/L ug/L ug/L mg/L mg/L mg/L umhos/cm	6010B 6010B 6010B 300.0 300.0 L107-06-1B SM 2510B
Dissolved Aluminum Chromium Sodium		75 J 12 82000	100 5.0 2000	ug/L ug/L ug/L	6010B 6010B 6010B

EXECUTIVE SUMMARY - Detections

Lab Sample ID C	Client Sample ID	Result / Q	ualifier	Reporting Limit	Units	Method
360-25577-7	OC-SW-18R-DUP					
Aluminum		280		100	ug/L	6010B
Chromium		34		5.0	ug/L	6010B
Sodium		71000		2000	ug/L	6010B
Sulfate		150		20	mg/L	300.0
Chloride		110		10	mg/L	300.0
Ammonia		33		0.50	mg/L	L107-06-1B
Specific Conductance		800		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		84	J	100	ug/L	6010B
Chromium		13		5.0	ug/L	6010B
Sodium		83000		2000	ug/L	6010B
360-25577-8	OC-SW-ISCO1					
Aluminum		280		100	ug/L	6010B
Chromium		34		5.0	ug/L	6010B
Sodium		71000		2000	ug/L	6010B
Sulfate		150		20	mg/L	300.0
Chloride		120		10	mg/L	300.0
Ammonia		33		1.0	mg/L	L107-06-1B
Specific Conductance		790		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		73	J	100	ug/L	6010B
Chromium		12		5.0	ug/L	6010B
Sodium		81000		2000	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation Job Number: 360-25577-1

Description	Lab Location	Method Preparation Method
Matrix: Water		
Dissolved Metals	TAL WFD	SW846 6010B
Total Metals	TAL WFD	SW846 6010B
Sample Filtration, Field	TAL WFD	FIELD_FLTRD
Preparation, Total Metals	TAL WFD	SW846 3010A
Chloride & Sulfate	TAL WFD	40CFR136A 300.0
Nitrate & Nitrite	TAL WFD	40CFR136A 300.0
Nitrogen Ammonia	TAL WFD	LACHAT L107-06-1B
Distillation, Ammonia	TAL WFD	Distill/Ammonia
Conductivity, Specific Conductance	TAL WFD	SM SM 2510B

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS
40CFR136A 300.0	Lalashius, Andrew L	ALL
LACHAT L107-06-1B	Lalashius, Andrew L	ALL
SM SM 2510B	Emerich, Rich W	RWE

SAMPLE SUMMARY

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
360-25577-1	OC-SW-ISCO3	Water	11/12/2009 0855	11/12/2009 1645
360-25577-2	OC-SW-ISCO2	Water	11/12/2009 0910	11/12/2009 1645
360-25577-3	OC-SW-PZ16RR	Water	11/12/2009 0930	11/12/2009 1645
360-25577-4	OC-SW-PZ17RR	Water	11/12/2009 0950	11/12/2009 1645
360-25577-5	OC-SW-SD17	Water	11/12/2009 1005	11/12/2009 1645
360-25577-6	OC-SW-18R	Water	11/12/2009 1020	11/12/2009 1645
360-25577-6MS	OC-SW-18R-MS	Water	11/12/2009 1020	11/12/2009 1645
360-25577-6MSD	OC-SW-18R-MSD	Water	11/12/2009 1020	11/12/2009 1645
360-25577-7	OC-SW-18R-DUP	Water	11/12/2009 1020	11/12/2009 1645
360-25577-8	OC-SW-ISCO1	Water	11/12/2009 1050	11/12/2009 1645

SAMPLE RESULTS

Mr. Steven Morrow Job Number: 360-25577-1 Olin Corporation

3855 North Ocoee Street

Suite 200

Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-ISCO3

Lab Sample ID:

360-25577-1

Date Sampled:

11/12/2009 0855

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Quali	fier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Ar	nalyzed: 11	/13/2009 1514	
Aluminum	ND		ug/L	39	100	1.0
Chromium	ND		ug/L	1.3	5.0	1.0
Sodium	79000 🥤		ug/L	250	2000	1.0
Method: 6010B			Date Ar	nalyzed: 11	/13/2009 1426	
Prep Method: 3010A			Date Pr	epared: 11	/13/2009 0746	
Aluminum	55	J	ug/L	39	100	1.0
Chromium	ND		ug/L	1.3	5.0	1.0
Sodium	60000 🥣		ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441 Job Number: 360-25577-1

Client Sample ID:

OC-SW-ISCO3

Lab Sample ID:

360-25577-1

Date Sampled: 11/12/2009 0855

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed: 11/	13/2009 1653	
Sulfate	31	mg/L	2.0	2.0	1.0
Nitrate as N	0.97	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Anal	yzed: 11/	13/2009 1708	
Chloride	160	mg/L	10	10	10
Method: L107-06-1B	94	Date Anal	yzed: 11/2	24/2009 1537	
Prep Method: Distill/Ammonia		Date Prep	ared: 11/2	24/2009 1333	
Ammonia	1.5 3	mg/L	0.10	0.10	1.0
Method: SM 2510B		Date Anal	yzed: 11/	13/2009 0929	
Specific Conductance	650	umhos/cm	1.0	1.0	1.0

Job Number: 360-25577-1 Mr. Steven Morrow

Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-ISCO2

Lab Sample ID:

360-25577-2

Date Sampled: 11/12/2009 0910

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Ar	nalyzed:	11/13/2009 1522	
Aluminum	110	ug/L	39	100	1.0
Chromium	29	ug/L	1.3	5.0	1.0
Sodium	150000 🍑	ug/L	250	2000	1.0
Method: 6010B		Date Ar	alyzed:	11/13/2009 1429	
Prep Method: 3010A		Date Pr	epared:	11/13/2009 0746	
Aluminum	350	ug/L	39	100	1.0
Chromium	68	ug/L	1.3	5.0	1.0
Sodium	120000 T	ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441 Job Number: 360-25577-1

Client Sample ID:

OC-SW-ISCO2

Lab Sample ID:

360-25577-2

Date Sampled:

11/12/2009 0910

Date Received:

11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed: 11/1:	3/2009 1725	
Nitrate as N	1.4	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0	*	Date Anal	yzed: 11/1:	3/2009 1740	
Sulfate	510	mg/L	20	20	10
Chloride	170	mg/L	10	10	10
Method: L107-06-1B		Date Anal	yzed: 11/2	4/2009 1612	
Prep Method: Distill/Ammonia		Date Prep	ared: 11/2	4/2009 1333	
Ammonia	83 J	mg/L	1.0	1.0	10
Method: SM 2510B		Date Anal	yzed: 11/1	3/2009 0932	
Specific Conductance	1600	umhos/cm	1.0	1.0	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street

Suite 200

Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-PZ16RR

360-25577-3

Date Sampled: 11/12/2009 0930

Job Number: 360-25577-1

Date Received: 11/12/2009 1645

Water

Client Matrix:

				5.00	
Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date A	nalyzed: 11/	13/2009 1526	
Aluminum	93 J	ug/L	39	100	1.0
Chromium	60	ug/L	1.3	5.0	1.0
Sodium	170000 T	ug/L	250	2000	1.0
Method: 6010B		Date A	nalyzed: 11/	13/2009 1432	
Prep Method: 3010A		Date P	repared: 11/	13/2009 0746	
Aluminum	4800	ug/L	39	100	1.0
Chromium	1000	ug/L	1.3	5.0	1.0
Sodium	150000	ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-PZ16RR

360-25577-3

Date Sampled: 11/12/2009 0930

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed:	11/13/2009 1756	
Nitrate as N	3.9	mg/L	0.050	0.050	1.0
Method: 300.0		Date Anal	yzed:	11/13/2009 1811	
Sulfate	380	mg/L	20	20	10
Chloride	250	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	.10
Method: L107-06-1B		Date Anal	yzed:	11/24/2009 1613	
Prep Method: Distill/Ammonia		Date Prep	ared:	11/24/2009 1333	
Ammonia	57 🚺	mg/L	1.0	1.0	10
Method: SM 2510B		Date Anal	yzed:	11/13/2009 0934	
Specific Conductance	1600	umhos/cm	1.0	1.0	1.0

Job Number: 360-25577-1 Mr. Steven Morrow Olin Corporation

3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-PZ17RR

Lab Sample ID:

360-25577-4

Date Sampled: 11/12/2009 0950

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qual	ifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Ar	alyzed: 11/	13/2009 1529	
Aluminum	70	J	ug/L	39	100	1.0
Chromium	68		ug/L	1.3	5.0	1.0
Sodium	150000	7	ug/L	250	2000	1.0
Method: 6010B			Date Ar	alyzed: 11/	13/2009 1435	
Prep Method: 3010A			Date Prepared: 11/13/20		13/2009 0746	
Aluminum	3400		ug/L	39	100	1.0
Chromium	770		ug/L	1.3	5.0	1.0
Sodium	130000	7	ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-PZ17RR

360-25577-4

Date Sampled: 11/12/2009 0950

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed:	11/13/2009 1856	
Nitrate as N	4.0	mg/L	0.050	0.050	1.0
Method: 300.0		Date Anal	yzed:	11/13/2009 1911	
Sulfate	250	mg/L	20	20	10
Chloride	240	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B		Date Anal	yzed:	11/24/2009 1614	
Prep Method: Distill/Ammonia		Date Prep	ared:	11/24/2009 1333	
Ammonia	37 🍼	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Anal	yzed:	11/13/2009 0935	
Specific Conductance	1300	umhos/cm	1.0	1.0	1.0

Mr. Steven Morrow

Job Number: 360-25577-1

Olin Corporation

3855 North Ocoee Street Suite 200

Cleveland, TN 37312-4441

 Client Sample ID:
 OC-SW-SD17
 Date Sampled:
 11/12/2009 1005

 Lab Sample ID:
 360-25577-5
 Date Received:
 11/12/2009 1645

Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date A	nalyzed: 11/1	3/2009 1532	
Aluminum	70 J	ug/L	39	100	1.0
Chromium	59	ug/L	1.3	5.0	1.0
Sodium	140000	ug/L	250	2000	1.0
Method: 6010B		Date A	nalyzed: 11/1	3/2009 1438	
Prep Method: 3010A		Date P	repared: 11/1	3/2009 0746	
Aluminum	2700	ug/L	39	100	1.0
Chromium	620	ug/L	1.3	5.0	1.0
Sodium	130000	ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street

Suite 200

Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-SD17

360-25577-5

Date Sampled:

11/12/2009 1005

Date Received: 11/12/2009 1645

Job Number: 360-25577-1

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed: 11/	13/2009 1926	
Nitrate as N	4.3	mg/L	0.050	0.050	1.0
Method: 300.0		Date Anal	yzed: 11	13/2009 1941	
Sulfate	200	mg/L	20	20	10
Chloride	230	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B		Date Anal	yzed: 11	24/2009 1615	
Prep Method: Distill/Ammonia		Date Prep	ared: 11	24/2009 1333	
Ammonia	28 丁	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Anal	yzed: 11	13/2009 0936	
Specific Conductance	1300	umhos/cm	1.0	1.0	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441 Job Number: 360-25577-1

Client Sample ID:

OC-SW-18R

Lab Sample ID:

360-25577-6

Date Sampled:

11/12/2009 1020

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qua	ifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Ar	nalyzed: 1	1/13/2009 1502	
Aluminum	75	J	ug/L	39	100	1.0
Chromium	12		ug/L	1.3	5.0	1.0
Sodium	82000 🦪		ug/L	250	2000	1.0
Method: 6010B			Date Ar	nalyzed: 1	1/13/2009 1446	
Prep Method: 3010A			Date Pr	epared: 1	1/13/2009 0746	
Aluminum	290		ug/L	39	100	1.0
Chromium	36		ug/L	1.3	5.0	1.0
Sodium	74000		ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-18R

360-25577-6

Date Sampled:

11/12/2009 1020

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed: 11/1:	3/2009 1553	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Anal	yzed: 11/1:	3/2009 1608	
Sulfate	140	mg/L	20	20	10
Chloride	110	mg/L	10	10	10
Method: L107-06-1B		Date Anal	yzed: 11/2	4/2009 1616	
Prep Method: Distill/Ammonia		Date Prep	ared: 11/2	4/2009 1333	
Ammonia	36 T	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Anal	yzed: 11/1	3/2009 0938	
Specific Conductance	800	umhos/cm	1.0	1.0	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-18R-DUP

Lab Sample ID:

360-25577-7

Date Sampled:

11/12/2009 1020

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Ar	nalyzed:	11/13/2009 1542	
Aluminum	84 J	ug/L	39	100	1.0
Chromium	13	ug/L	1.3	5.0	1.0
Sodium	83000 5	ug/L	250	2000	1.0
Method: 6010B		Date Ar	nalyzed:	11/13/2009 1455	
Prep Method: 3010A		Date Pr	repared:	11/13/2009 0746	
Aluminum	280	ug/L	39	100	1.0
Chromium	34	ug/L	1.3	5.0	1.0
Sodium	71000 🦪	ug/L	250	2000	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-18R-DUP

Lab Sample ID:

360-25577-7

Date Sampled:

11/12/2009 1020

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	yzed: 11	/13/2009 1956	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Anal	yzed: 11	/13/2009 2011	
Sulfate	150	mg/L	20	20	10
Chloride	110	mg/L	10	10	10
Method: L107-06-1B		Date Anal	yzed: 11	/24/2009 1621	
Prep Method: Distill/Ammonia		Date Prep	ared: 11	/24/2009 1333	
Ammonia	33 5	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Anal	yzed: 11	/13/2009 0939	
Specific Conductance	800	umhos/cm	1.0	1.0	1.0

Mr. Steven Morrow Olin Corporation 3855 North Ocoee Street Suite 200 Cleveland, TN 37312-4441

Client Sample ID:

OC-SW-ISCO1

Lab Sample ID:

360-25577-8

Date Sampled:

11/12/2009 1050

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Ar	nalyzed: 11/1	3/2009 1545	
Aluminum	73 J	ug/L	39	100	1.0
Chromium	12	ug/L	1.3	5.0	1.0
Sodium	81000 🔰	ug/L	250	2000	1.0
Method: 6010B		Date Ar	nalyzed: 11/1	3/2009 1459	
Prep Method: 3010A		Date Pr	repared: 11/1	3/2009 0746	
Aluminum	280	ug/L	39	100	1.0
Chromium	34	ug/L	1.3	5.0	1.0
Sodium	71000 🕤	ug/L	250	2000	1.0

Mr. Steven Morrow Job Number: 360-25577-1 Olin Corporation

3855 North Ocoee Street

Suite 200

Cleveland, TN 37312-4441

Client Sample ID: Lab Sample ID:

OC-SW-ISCO1 360-25577-8

Date Sampled:

11/12/2009 1050

Date Received: 11/12/2009 1645

Client Matrix:

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Anal	lyzed: 11/1	3/2009 2026	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Anal	lyzed: 11/1	3/2009 2041	
Sulfate	150	mg/L	20	20	10
Chloride	120	mg/L	10	10	10
Method: L107-06-1B		Date Anal	lyzed: 11/2	4/2009 1622	
Prep Method: Distill/Ammonia		Date Prep	pared: 11/2	4/2009 1333	
Ammonia	33 ブ	mg/L	1.0	1.0	10
Method: SM 2510B		Date Anal	lyzed: 11/1	3/2009 0941	
Specific Conductance	790	umhos/cm	1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	F	MS or MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Olin Corporation Job Number: 360-25577-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 360-51587					
_CS 360-51587/2-A	Lab Control Sample	Т	Water	3010A	
CSD 360-51587/3-A	Lab Control Sample Duplicate	Т	Water	3010A	
MB 360-51587/1-A	Method Blank	Т	Water	3010A	
360-25577-1	OC-SW-ISCO3	Т	Water	3010A	
360-25577-2	OC-SW-ISCO2	Т	Water	3010A	
360-25577-3	OC-SW-PZ16RR	Т	Water	3010A	
360-25577-4	OC-SW-PZ17RR	Т	Water	3010A	
360-25577-5	OC-SW-SD17	Т	Water	3010A	
360-25577-6	OC-SW-18R	Т	Water	3010A	
360-25577-6MS	Matrix Spike	Т	Water	3010A	
860-25577-6MSD	Matrix Spike Duplicate	Т	Water	3010A	
360-25577-7	OC-SW-18R-DUP	T	Water	3010A	
860-25577-8	OC-SW-ISCO1	T	Water	3010A	
Analysis Batch:360-5165	0				
.CS 360-51587/2-A	Lab Control Sample	Т	Water	6010B	360-51587
CSD 360-51587/3-A	Lab Control Sample Duplicate	T	Water	6010B	360-51587
/IB 360-51587/1-A	Method Blank	T	Water	6010B	360-51587
60-25577-1	OC-SW-ISCO3	T	Water	6010B	360-51587
60-25577-2	OC-SW-ISCO2	T	Water	6010B	360-51587
60-25577-3	OC-SW-PZ16RR	T	Water	6010B	360-51587
60-25577-4	OC-SW-PZ17RR	T	Water	6010B	360-51587
60-25577-5	OC-SW-SD17	T	Water	6010B	360-51587
360-25577-6	OC-SW-18R	T	Water	6010B	360-51587
860-25577-6MS	Matrix Spike	T	Water	6010B	360-51587
860-25577-6MSD	Matrix Spike Duplicate	T	Water	6010B	360-51587
360-25577-7	OC-SW-18R-DUP	T T	Water	6010B	360-51587
360-25577-8	OC-SW-ISCO1	Ť	Water	6010B	360-51587
Analysis Batch:360-5167	4				
.CS 360-51674/20	Lab Control Sample	Т	Water	6010B	
.CSD 360-51674/27	Lab Control Sample Duplicate	T T	Water	6010B	
MB 360-51674/21	Method Blank	T T	Water	6010B	
360-25577-1	OC-SW-ISCO3	D	Water	6010B	
360-25577-1 360-25577-2	OC-SW-ISCO2	D	Water	6010B	
360-25577-3	OC-SW-PZ16RR	D	Water	6010B	
60-25577-4	OC-SW-PZ17RR	D	Water	6010B	
60-25577-5	OC-SW-SD17	D	Water	6010B	
60-25577-6	OC-SW-18R	D	Water	6010B	
60-25577-6MS	Matrix Spike	D	Water	6010B	
860-25577-6MSD	Matrix Spike Duplicate	D	Water	6010B	
360-25577-7	OC-SW-18R-DUP	D	Water	6010B	
360-25577-8	OC-SW-ISCO1	D	Water	6010B	

Quality Control Results

Client: Olin Corporation Job Number: 360-25577-1

QC Association Summary

Report

Lab Sample ID Client Sample ID Basis Client Matrix Method Prep Batch

Report Basis

D = Dissolved

T = Total

Client: Olin Corporation Job Number: 360-25577-1

QC Association Summary

Lab Sample ID General Chemistry Analysis Batch:360-51614	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Analysis Batch:360-51614					
-					
CS 360-51614/10	Lab Control Sample	т	Water	SM 2510B	
1B 360-51614/3	Method Blank	T T	Water	SM 2510B	
60-25577-1	OC-SW-ISCO3	, T	Water	SM 2510B	
60-25577-1DU	Duplicate	T	Water	SM 2510B	
60-25577-1DG 60-25577-2	OC-SW-ISCO2	Ť	Water	SM 2510B	
60-25577-3	OC-SW-PZ16RR	T	Water	SM 2510B	
60-25577-4	OC-SW-PZ17RR	T .	Water	SM 2510B	
60-25577-5	OC-SW-SD17	T .	Water	SM 2510B	
60-25577-6	OC-SW-18R	, T	Water	SM 2510B	
60-25577-0 60-25577-7	OC-SW-18R-DUP	, T	Water	SM 2510B SM 2510B	
60-25577-8	OC-SW-ISCO1	Ť	Water	SM 2510B SM 2510B	
00-200 <i>11-</i> 0	00-344-13001	ı	vvalei	3W 23 10B	
Analysis Batch:360-51682					
CS 360-51682/4	Lab Control Sample	Т	Water	300.0	
1B 360-51682/3	Method Blank	Т	Water	300.0	
60-25577-1	OC-SW-ISCO3	Т	Water	300.0	
60-25577-2	OC-SW-ISCO2	Т	Water	300.0	
60-25577-3	OC-SW-PZ16RR	Т	Water	300.0	
60-25577-4	OC-SW-PZ17RR	Т	Water	300.0	
60-25577-5	OC-SW-SD17	Т	Water	300.0	
60-25577-6	OC-SW-18R	Т	Water	300.0	
60-25577-6MS	Matrix Spike	Т	Water	300.0	
60-25577-6MSD	Matrix Spike Duplicate	Т	Water	300.0	
60-25577-7	OC-SW-18R-DUP	Т	Water	300.0	
60-25577-8	OC-SW-ISCO1	Т	Water	300.0	
Analysis Batch:360-51684					
CS 360-51684/4	Lab Control Sample	Т	Water	300.0	
1B 360-51684/3	Method Blank	, T	Water	300.0	
60-25577-1	OC-SW-ISCO3	T	Water	300.0	
60-25577-1	OC-SW-ISCO2	, T	Water	300.0	
60-25577-3	OC-SW-PZ16RR	T	Water	300.0	
60-25577-4	OC-SW-PZ17RR	, T	Water	300.0	
60-25577- 4 60-25577-5	OC-SW-SD17	, T	Water	300.0	
60-25577-6	OC-SW-18R	, T	Water	300.0	
60-25577-6MS	Matrix Spike	, T	Water	300.0	
60-25577-6MSD	Matrix Spike Matrix Spike Duplicate	T	Water	300.0	
60-25577-0WSD	OC-SW-18R-DUP	T	Water	300.0	
60-25577-8	OC-SW-18R-DUP OC-SW-ISCO1	T T	Water	300.0	

Client: Olin Corporation Job Number: 360-25577-1

QC Association Summary

Olivert Overesty ID	Report Basis	Oli and Madelin	No. di	Davis Datab
Client Sample ID	Dasis	Client Matrix	Method	Prep Batch
Lab Control Sample	Т	Water	Distill/Ammonia	
Method Blank	Т	Water	Distill/Ammonia	
OC-SW-ISCO3	Т	Water	Distill/Ammonia	
OC-SW-ISCO2	Т	Water	Distill/Ammonia	
OC-SW-PZ16RR	Т	Water	Distill/Ammonia	
OC-SW-PZ17RR	Т	Water	Distill/Ammonia	
OC-SW-SD17	Т	Water	Distill/Ammonia	
OC-SW-18R	Т	Water	Distill/Ammonia	
Matrix Spike	Т	Water	Distill/Ammonia	
Matrix Spike Duplicate	Т	Water	Distill/Ammonia	
OC-SW-18R-DUP	Т	Water	Distill/Ammonia	
OC-SW-ISCO1	Т	Water	Distill/Ammonia	
7				
Lab Control Sample	Т	Water	L107-06-1B	360-52128
Method Blank	T	Water	L107-06-1B	360-52128
OC-SW-ISCO3	Т	Water	L107-06-1B	360-52128
OC-SW-ISCO2	Т	Water	L107-06-1B	360-52128
OC-SW-PZ16RR	Т	Water	L107-06-1B	360-52128
OC-SW-PZ17RR	Т	Water	L107-06-1B	360-52128
OC-SW-SD17	Т	Water	L107-06-1B	360-52128
OC-SW-18R	Т	Water	L107-06-1B	360-52128
Matrix Spike	Т	Water	L107-06-1B	360-52128
Matrix Spike Duplicate	Т	Water	L107-06-1B	360-52128
OC-SW-18R-DUP	T	Water	L107-06-1B	360-52128
OC-SW-ISCO1	Т	Water	L107-06-1B	360-52128
	Lab Control Sample Method Blank OC-SW-ISCO3 OC-SW-ISCO2 OC-SW-PZ16RR OC-SW-PZ17RR OC-SW-SD17 OC-SW-18R Matrix Spike Matrix Spike Duplicate OC-SW-ISCO1 Lab Control Sample Method Blank OC-SW-ISCO3 OC-SW-ISCO3 OC-SW-PZ16RR OC-SW-PZ16RR OC-SW-PZ17RR OC-SW-PZ17RR OC-SW-PZ17RR OC-SW-SD17 OC-SW-18R Matrix Spike Duplicate OC-SW-18R-DUP	Lab Control Sample T Method Blank T OC-SW-ISCO3 T OC-SW-ISCO2 T OC-SW-PZ16RR T OC-SW-PZ17RR T OC-SW-SD17 T OC-SW-18R T Matrix Spike Duplicate T OC-SW-ISCO1 T Lab Control Sample T Method Blank T OC-SW-ISCO3 T OC-SW-ISCO3 T OC-SW-ISCO3 T OC-SW-PZ16RR T Method Blank T OC-SW-ISCO3 T OC-SW-PZ16RR T OC-SW-PZ17RR T OC-SW-PZ17RR T OC-SW-PZ17RR T OC-SW-PZ17RR T OC-SW-PZ17RR T OC-SW-PZ17RR T OC-SW-SD17 T OC-SW-SD17 T OC-SW-SD17 T OC-SW-SD17 T OC-SW-SD17 T OC-SW-SD18R T Matrix Spike Duplicate T OC-SW-18R-DUP T	Lab Control Sample Method Blank OC-SW-ISCO3 T Water OC-SW-ISCO2 T Water OC-SW-PZ16RR T Water OC-SW-PZ17RR T Water OC-SW-SD17 OC-SW-18R Matrix Spike Matrix Spike DOC-SW-ISCO1 Lab Control Sample Method Blank T Water OC-SW-ISCO3 T Water Matrix Spike T Water OC-SW-ISCO3 T Water Method Blank T Water OC-SW-ISCO3 T Water OC-SW-ISCO3 T Water OC-SW-PZ16RR T Water OC-SW-PZ16RR T Water OC-SW-PZ17RR T Water OC-SW-PZ17RR T Water OC-SW-SD17 T Water OC-SW-SD17 T Water OC-SW-18R Matrix Spike T Water Matrix Spike T Water	Lab Control Sample T Water Distill/Ammonia Method Blank T Water Distill/Ammonia OC-SW-ISCO3 T Water Distill/Ammonia OC-SW-ISCO2 T Water Distill/Ammonia OC-SW-PZ16RR T Water Distill/Ammonia OC-SW-PZ16RR T Water Distill/Ammonia OC-SW-PZ17RR T Water Distill/Ammonia OC-SW-SD17 T Water Distill/Ammonia OC-SW-SD17 T Water Distill/Ammonia Matrix Spike T Water Distill/Ammonia Matrix Spike T Water Distill/Ammonia OC-SW-18R-DUP T Water Distill/Ammonia OC-SW-18R-DUP T Water Distill/Ammonia OC-SW-ISCO1 T Water Distill/Ammonia OC-SW-ISCO2 T Water L107-06-1B OC-SW-ISCO3 T Water L107-06-1B OC-SW-ISCO2 T Water L107-06-1B OC-SW-PZ16RR T Water L107-06-1B OC-SW-SD17 T Water L107-06-1B Matrix Spike Duplicate T Water L107-06-1B

Report Basis

T = Total

Quality Control Results

Client: Olin Corporation Job Number: 360-25577-1

Method: 6010B Method Blank - Batch: 360-51587 Preparation: 3010A

Lab Sample ID: MB 360-51587/1-A Analysis Batch: 360-51650 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: 360-51587 Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume:

50 mL 11/13/2009 1348 Date Analyzed: Final Weight/Volume: 50 mL Date Prepared: 11/13/2009 0746

RL Analyte Result Qual MDL ND 39 100 Aluminum Chromium ND 1.3 5.0 Sodium ND 250 2000

Lab Control Sample/ Method: 6010B Lab Control Sample Duplicate Recovery Report - Batch: 360-51587 Preparation: 3010A

LCS Lab Sample ID: LCS 360-51587/2-A Analysis Batch: 360-51650 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: 360-51587 Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume:

50 mL 11/13/2009 1351 Final Weight/Volume: 50 mL Date Analyzed: 11/13/2009 0746 Date Prepared:

LCSD Lab Sample ID: LCSD 360-51587/3-A Varian 720 ES ICP Analysis Batch: 360-51650 Instrument ID:

Client Matrix: Water Prep Batch: 360-51587 Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume: 50 mL

11/13/2009 1354 Date Analyzed: Final Weight/Volume: 50 mL Date Prepared: 11/13/2009 0746

% Rec. LCS RPD Analyte **LCSD** Limit RPD Limit LCS Qual LCSD Qual Aluminum 97 95 80 - 120 1 20 Chromium 100 80 - 120 20 99 1 Sodium 96 80 - 120 20 94 2

Calculations are performed before rounding to avoid round-off errors in calculated results.

50 mL

Client: Olin Corporation Job Number: 360-25577-1

Matrix Spike/ Method: 6010B

Matrix Spike Duplicate Recovery Report - Batch: 360-51587 Preparation: 3010A

MS Lab Sample ID: 360-25577-6 Analysis Batch: 360-51650 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: 360-51587 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

 Date Analyzed:
 11/13/2009
 1449
 Final Weight/Volume:
 50 mL

 Date Prepared:
 11/13/2009
 0746

MSD Lab Sample ID: 360-25577-6 Analysis Batch: 360-51650 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: 360-51587 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 50 mL

 Date Analyzed:
 11/13/2009 1452
 Final Weight/Volume:
 50 mL

 Date Prepared:
 11/13/2009 0746

% Rec. RPD Analyte MS MSD Limit **RPD Limit** MS Qual MSD Qual Aluminum 75 - 125 96 101 4 20 75 - 125 Chromium 97 101 4 20 Sodium 78 105 75 - 125 6 20

Client: Olin Corporation Job Number: 360-25577-1

Method Blank - Batch: 360-51674 Method: 6010B
Preparation: N/A

Lab Sample ID: MB 360-51674/21 Analysis Batch: 360-51674 Instrument ID: Varian 720 ES ICP Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: ug/L Initial Weight/Volume:

Date Analyzed: 11/13/2009 1444 Final Weight/Volume: 1.0 mL Date Prepared: N/A

RL Analyte Result Qual MDL ND 39 100 Aluminum Chromium ND 1.3 5.0 Sodium ND 250 2000

Lab Control Sample/ Method: 6010B
Lab Control Sample Duplicate Recovery Report - Batch: 360-51674 Preparation: N/A

LCS Lab Sample ID: LCS 360-51674/20 Analysis Batch: 360-51674 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A
Dilution: 1.0 Units: ug/L Initial Weight/Volume:

Date Analyzed: 11/13/2009 1441 Final Weight/Volume: 10 mL

Date Prepared: N/A

LCSD Lab Sample ID: LCSD 360-51674/27 Analysis Batch: 360-51674 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A
Dilution: 1.0 Units: ug/L Initial Weight/Volume:

Date Analyzed: 11/13/2009 1517 Final Weight/Volume: 10 mL

Date Prepared: N/A

% Rec. LCS RPD Analyte **LCSD** Limit RPD Limit LCS Qual LCSD Qual Aluminum 94 98 80 - 120 5 20 Chromium 97 80 - 120 2 20 100 Sodium 95 80 - 120 20 98 3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation Job Number: 360-25577-1

Matrix Spike/ Method: 6010B
Matrix Spike Duplicate Recovery Report - Batch: 360-51674 Preparation: N/A

MS Lab Sample ID: 360-25577-6 Analysis Batch: 360-51674 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

Date Analyzed: 11/13/2009 1505 Final Weight/Volume: 10 mL Date Prepared: N/A

MSD Lab Sample ID: 360-25577-6 Analysis Batch: 360-51674 Instrument ID: Varian 720 ES ICP

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

Date Analyzed: 11/13/2009 1508 Final Weight/Volume: 10 mL

Date Prepared: N/A

% Rec. RPD Analyte MS MSD Limit **RPD Limit** MS Qual MSD Qual Aluminum 75 - 125 97 98 20 1 75 - 125 Chromium 97 98 1 20 Sodium 76 76 75 - 125 0 20 4

1.0 mL

Client: Olin Corporation Job Number: 360-25577-1

Method Blank - Batch: 360-51682 Method: 300.0

Preparation: N/A

Lab Sample ID: MB 360-51682/3 Analysis Batch: 360-51682 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/13/2009 1522 Final Weight/Volume: 1.0 mL Date Prepared: N/A

 Analyte
 Result
 Qual
 RL
 RL

 Nitrate as N
 ND
 0.050
 0.050

 Nitrite as N
 ND
 0.010
 0.010

Lab Control Sample - Batch: 360-51682 Method: 300.0 Preparation: N/A

Lab Sample ID: LCS 360-51682/4 Analysis Batch: 360-51682 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume:

Date Analyzed: 11/13/2009 1538 Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit Qual Nitrate as N 4.00 85 - 115 4.18 105 Nitrite as N 4.00 85 - 115 4.06 101

Calculations are performed before rounding to avoid round-off errors in calculated results.

1.0 mL

Client: Olin Corporation Job Number: 360-25577-1

Matrix Spike/ Method: 300.0 Matrix Spike Duplicate Recovery Report - Batch: 360-51682 Preparation: N/A

MS Lab Sample ID: Analysis Batch: 360-51682 360-25577-6 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID:

Dilution: 10 Initial Weight/Volume:

11/13/2009 1623 Final Weight/Volume: Date Analyzed: 10 mL

Date Prepared: N/A

MSD Lab Sample ID: 360-25577-6 Analysis Batch: 360-51682 Instrument ID: No Equipment Assigned

Water Lab File ID:

Client Matrix: Prep Batch: N/A

Dilution: 10 Initial Weight/Volume: 1.0 mL Date Analyzed: 11/13/2009 1638 Final Weight/Volume: 10 mL

Date Prepared: N/A

% Rec. RPD Analyte MS MSD Limit **RPD Limit** MS Qual MSD Qual Nitrate as N 75 - 125 114 20 114 0 Nitrite as N 108 108 75 - 125 0 20

Client: Olin Corporation Job Number: 360-25577-1

Method Blank - Batch: 360-51684 Method: 300.0 Preparation: N/A

Lab Sample ID: Analysis Batch: 360-51684 MB 360-51684/3 Instrument ID: No Equipment Assigned Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 1.0 mL Date Analyzed: 11/13/2009 1522 Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Result RL RL Analyte Qual Sulfate ND 2.0 2.0 Chloride ND 1.0 1.0

Lab Control Sample - Batch: 360-51684 Method: 300.0 Preparation: N/A

Lab Sample ID: LCS 360-51684/4 Analysis Batch: 360-51684 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: Units: mg/L Initial Weight/Volume: 1.0 1.0 mL

Date Analyzed: 11/13/2009 1538 Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit Qual 80.0 85 - 115 Sulfate 83.7 105 40.0 85 - 115

40.7

102

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chloride

1.0 mL

Client: Olin Corporation Job Number: 360-25577-1

Matrix Spike/ Method: 300.0

Matrix Spike Duplicate Recovery Report - Batch: 360-51684 Preparation: N/A

MS Lab Sample ID: 360-25577-6 Analysis Batch: 360-51684 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 10 Initial Weight/Volume:

Date Analyzed: 11/13/2009 1623 Final Weight/Volume: 10 mL

Date Prepared: N/A

MSD Lab Sample ID: 360-25577-6 Analysis Batch: 360-51684 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 10 Initial Weight/Volume: 1.0 mL

Date Analyzed: 11/13/2009 1638 Final Weight/Volume: 10 mL

Date Prepared: N/A

% Rec. RPD Analyte MS MSD Limit **RPD Limit** MS Qual MSD Qual Sulfate 75 - 125 119 20 119 0 Chloride 119 119 75 - 125 0 20

Client: Olin Corporation

Job Number: 360-25577-1

Method Blank - Batch: 360-52128

Method: L107-06-1B

Preparation: Distill/Ammonia

Lab Sample ID:

MB 360-52128/1-A

Analysis Batch: 360-52157

Instrument ID: No Equipment Assigned

Client Matrix:

Water

Prep Batch: 360-52128

Lab File ID:

Dilution:

1.0

Units: mg/L

Initial Weight/Volume:

1.0 mL

Date Analyzed: Date Prepared:

11/24/2009 1533 11/24/2009 1333 Final Weight/Volume:

50 mL

Analyte

Result

Qual

RL

RL

Ammonia

0.10

0.10

ND

Lab Control Sample - Batch: 360-52128

Method: L107-06-1B

Preparation: Distill/Ammonia

Lab Sample ID: Client Matrix:

Dilution:

LCS 360-52128/2-A

Water

1.0

11/24/2009 1534 Date Analyzed: Date Prepared: 11/24/2009 1333 Prep Batch: 360-52128

Units: mg/L

Analysis Batch: 360-52157

Lab File ID:

Instrument ID: No Equipment Assigned N/A

Initial Weight/Volume:

1.0 mL

Final Weight/Volume:

50 mL

Analyte

% Rec.

Limit

Qual

Ammonia

10.0

10.3

Result

103

85 - 115

Matrix Spike/

Spike Amount

Matrix Spike Duplicate Recovery Report - Batch: 360-52128

Method: L107-06-1B

Preparation: Distill/Ammonia

MS Lab Sample ID:

360-25577-6

Analysis Batch: 360-52157

Instrument ID:

No Equipment Assigned

Client Matrix:

Water

Prep Batch: 360-52128

Lab File ID:

N/A

Dilution:

10

Initial Weight/Volume:

1.0 mL

Date Analyzed:

Date Prepared:

11/24/2009 1617

Final Weight/Volume:

50 mL

MSD Lab Sample ID:

360-25577-6

11/24/2009 1333

Analysis Batch: 360-52157

Instrument ID: No Equipment Assigned

Client Matrix:

Dilution:

Water 10

Prep Batch: 360-52128

Lab File ID:

1.0 mL

Date Analyzed: Date Prepared:

11/24/2009 1620 11/24/2009 1333 Initial Weight/Volume: Final Weight/Volume:

50 mL

Analyte

MS 55

% Rec. MSD

Limit

RPD

RPD Limit

MS Qual

MSD Qual

Ammonia

75 - 125 115

13 20

F

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Westfield

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Qual

Client: Olin Corporation Job Number: 360-25577-1

Method Blank - Batch: 360-51614 Method: SM 2510B

Preparation: N/A

Lab Sample ID: MB 360-51614/3 Analysis Batch: 360-51614 Instrument ID: MAN-TECH Ion Plus

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A
Dilution: 1.0 Units: umhos/cm Initial Weight/Volume:

Date Analyzed: 11/13/2009 0854 Final Weight/Volume: 1.0 mL Date Prepared: N/A

Analyte Result Qual RL RL

Analyte Result Qual RL RL
Specific Conductance ND 1.0 1.0

Lab Control Sample - Batch: 360-51614 Method: SM 2510B Preparation: N/A

Lab Sample ID: LCS 360-51614/10 Analysis Batch: 360-51614 Instrument ID: MAN-TECH Ion Plus Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: umhos/cm Initial Weight/Volume:

Date Analyzed: 11/13/2009 0928 Final Weight/Volume: 1.0 mL Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit

 Specific Conductance
 1410
 1380
 98
 85 - 115

Duplicate - Batch: 360-51614 Method: SM 2510B Preparation: N/A

Lab Sample ID: 360-25577-1 Analysis Batch: 360-51614 Instrument ID: MAN-TECH Ion Plus Autotitral

Client Matrix:WaterPrep Batch: N/ALab File ID: N/ADilution:1.0Units: umhos/cmInitial Weight/Volume:

Date Analyzed: 11/13/2009 0931 Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte Sample Result/Qual Result RPD Limit Qual
Specific Conductance 650 650 0 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

State Accreditation Matrix

			State where	Primary Accredita	tion is Carried	
		New York			Florida	
Method Name	Description	(NELAC)	Mass	Conn	(NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)				NP	
SM 4500 CI F	Chlorine, Residual		NP			
SM 9215B	Heterotrophic Plate Count (Pour Plate Method)		Р			
SM 9215E	Heterotrophic Plate Count (SimPlate)		Р			
SM 9221F	E.Coli (Multiple-Tube Fermentation; EC-MUG)		Р			
SM 9222B	Coliforms, Total (Membrane Filter)		Р			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		Р			
200.8	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)		Р	Р		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction					
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	Р	Р	Р		
524.2	Trihalomethanes		Р	Р		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric		Р	Р		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	Р	NP/P	1	†
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		†
L204001A CN	Cyanide, Total		NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		†
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		†
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		†
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		†
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		+
SM 3500 CR D	Chromium, Hexavalent	NP		NP		1
SM 4500 H+ B	pH	NP/P	NP/P	NP/P	<u> </u>	+
SM 4500 H+ B	Nitrogen, Nitrite	NP	P	NP/P		+
SM 4500 NO2 B	Phosphorus, Orthophosphate	NP/P	NP	NP/P		+
SM 4500 P E	Phosphorus, Total	NP NP	NP	NP		+
SM 4500 P E SM 4500 S2 D		NP	141	NP		+
SM 4500 S2 D SM 5210B	Sulfide, Total	NP	NP	NP		+
	BOD, 5-Day	NP NP	NP NP	NP/P	<u> </u>	+
SM 5310B	Organic Carbon, Total (TOC)	INP	INF	INF/P	Ī	Ī

Not all organic compounds are accreditied under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is listing is subject to change based on the laboratories current certification standing.

Login Sample Receipt Check List

Client: Olin Corporation Job Number: 360-25577-1

Login Number: 25577 List Source: TestAmerica Westfield

Creator: Rinard, Kimberley A

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.6 C / 1.2 C / 5.2 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica Laboratories, Inc.

Chain of Custody Form

Test/merico

53 Southampton Road Westfield, MA 01085 (P) 413-572-4000 (F) 413-572-3707

(SOZ) Temp @ receipt: 0,6"//,2°c/5,2°c Ammonia Nitrogen--Lac 107-06-1B Cooler ? (1) N Samples Iced 7 N Specific Conductivity--SM 2510B (5000 48 hour hold time on NO2, NO3 Surfacewarer Dissolved metals are field filtered. 7 Date: 11 12 09 (Special Instructions) Chloride/sulfate--EPA 300 Nitrate/Nitrite--EPA 300 TO HOLL Time for Comments Preservation/pH checked Somples MCP case narrative By: Wr Analysis--JadtC Shaded areas for office use Check analysis and specify method JadiC Job# 362 255777 Quote# and analytes in comments section. Jse comments section to further define. Analysis Requested Jedi 8000-series for haz/solid waste 500-series for drinking water Jahr 600-series for waste water Jedic 19rhC イイスス メ × \times XXXX 11/2/199 X X X X アメメイン メメメ × TestAmerica-Westfield X Nitrite pecific Condutivity X Special Report Format MWRA Smart Rpt MCP QA/QC Rpt メ メ DEP Form(s) ANZ/HOA/ Preservative 19OH to pH >12 Work ID: Surface Water 1CI to bH <2 Project #: 6107-09-0016-04 S> Hq ot 402SI <u>-</u> Contact: David Chapman <u>۔</u> ہ 7 4 7 <u>ب</u> ۲ 4 3 Project Manager: P. Thompson 7 1NO3 to pH <2 eceived by ed b HO9M/FOSHeN Drinking Water MCP GW1/S1 <u>م</u> Q 9 þ 9. Regulatory Classification - - 7 Ś **J**-# Containers _ 3 dwo Grab 2 15.00 C > Collected 80/21/11 80/20 80/21/11 2001 1005 11/12/04 11/12/06 Date Eme 1020 in filler 90 <u>1</u>21.11 0360 2580 NPDES RCRA Other 11 (12 (04 Date: 38 ર્ટ્સ ጻይ Sampler's Initials 9 g 9 <u>E</u> 38 38 9 g 36 78 SW-Surfacewater 72 hrs 5 Day Rush TAT Requested: λbe Š Z £ ₹ ર્ડ ₹ <u>ર</u> ड़े \lesssim 3 Sample Z-Other Requested Turn Around Time 10 c C OC-SW-18R-MSD 24 hrs Client: Olin Chemical/MACTEC 48 hrs Wilmington, MA 01887 OC-5W- P216KK OC- SW-P2.17RR 0c-Sw-18R-Dup 6c sw -18R-ms Fax 0c-5w-I&03 DW-Drinking water SL-Sludge O-Oil OC-5W-ISCO 0C-SW -\$500 Z **GW-Groundwater** C- SW - 5017 Sample ID oc-sw-18R Address: 51 Eames Street 10 Busines's Day (Std) XX Chis M. Method of Ahipment: Relinquished by Sampled by (print): Sample Type Codes ed by: VW-Wastewater 15 Business Day .W-Labwater S-Solid / Soil Relinduis Phone Other of age 48 48

بر م Page 1

White = Lab file Yellow = Report copy Pink = Customer copy STL-8245 (1000)